

**ABSTRACT**

Reactor for carrying out endothermic catalytic reactions consisting of a metallic ingot and comprising at least one  
5 tubular reaction passage extending through the ingot and being adapted to hold a catalyst for endothermic conversion of a feedstock;

inlet passages for introduction of the feedstock into the reaction passage and outlet passages for withdrawing re-  
10 acted feedstock, the inlet and outlet passages being provided within the ingot; and

electrical heating means for heating the ingot and the reaction passage to supply heat for the catalytic endothermic conversion of the feedstock.